

PCT

NOTIFICATION OF ELECTION

(PCT Rule 61.2)

From the INTERNATIONAL BUREAU

To:

United States Patent and Trademark Office (Box PCT) Crystal Plaza 2 Washington, DC 20231 ÉTATS-UNIS D'AMÉRIQUE

Date of mailing (day/month/year)
22 June 1999 (22.06.99)

International application No.
PCT/EP98/06294

International filing date (day/month/year)
02 October 1998 (02.10.98)

Applicant
PELTONEN, Leena et al

1.	The designated	Office is hereby r	otified of its election made:	,
: .:.	X in the der	mand filed with th	e International Preliminary Examining Authority on:	
	*		26 April 1999 (26.04.99)	_
	in a notice	e effecting later el	ection filed with the International Bureau on:	
				-
2.	The election	X was		
	[was not		
	made before the Rule 32.2(b).	expiration of 19 r	months from the priority date or, where Rule 32 app	lies, within the time limit under
		•		

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland

Authorized officer

Catherine Massetti

Telephone No.: (41-22) 338.83.38

Facsimile No.: (41-22) 740.14.35

From the INTERNATIONAL BUREAU

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NOTIFICATION CONCERNING SUBMISSION OR TRANSMITTAL OF PRIORITY DOCUMENT

(PCT Administrative Instructions, Section 411)

VOSSIUS & PARTNER Siebertstrasse 4 D-81675 München ALLEMAGNE

IMPORTANT NOTIFICATION
International filing date (day/month/year) 02 October 1998 (02.10.98)
Priority date (day/month/year) 02 October 1997 (02.10.97)

MAX-PLANCK-GESELLSCHAFT ZUR FÖRDERUNG DER WISSENSCHAFTEN E.V. et al

- The applicant is hereby notified of the date of receipt (except where the letters "NR" appear in the right-hand column) by the
 International Bureau of the priority document(s) relating to the earlier application(s) indicated below. Unless otherwise
 indicated by an asterisk appearing next to a date of receipt, or by the letters "NR", in the right-hand column, the priority
 document concerned was submitted or transmitted to the International Bureau in compliance with Rule 17.1(a) or (b).
- 2. This updates and replaces any previously issued notification concerning submission or transmittal of priority documents.
- 3. An asterisk(*) appearing next to a date of receipt, in the right-hand column, denotes a priority document submitted or transmitted to the International Bureau but not in compliance with Rule 17.1(a) or (b). In such a case, the attention of the applicant is directed to Rule 17.1(c) which provides that no designated Office may disregard the priority claim concerned before giving the applicant an opportunity, upon entry into the national phase, to furnish the priority document within a time limit which is reasonable under the circumstances.
- 4. The letters "NR" appearing in the right-hand column denote a priority document which was not received by the International Bureau or which the applicant did not request the receiving Office to prepare and transmit to the International Bureau, as provided by Rule 17.1(a) or (b), respectively. In such a case, the attention of the applicant is directed to Rule 17.1(c) which provides that no designated Office may disregard the priority claim concerned before giving the applicant an opportunity, upon entry into the national phase, to furnish the priority document within a time limit which is reasonable under the circumstances.

Priority date	Priority application No.	Country or regional Office or PCT receiving Office	Date of receipt of priority document
02 Octo 1997 (02.10.97)	97117154.1	EP	03 May 1999 (03.05.99)
08 Octo 1997 (08.10.97)	97117398.4	EP	18 Dece 1998 (18.12.98)
12 Nove 1997 (12.11.97)	97119810.6	EP	18 Dece 1998 (18.12.98)

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland Authorized officer

Catherine Massetti

Facsimile No. (41-22) 740.14.35

Telephone No. (41-22) 338.83.38

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From the INTERNATIONAL BUREAU

To:

NOTIFICATION CONCERNING DOCUMENT TRANSMITTED

United States Patent and Trademark Office (Box PCT) Crystal Plaza 2 Washington, DC 20231 ÉTATS-UNIS D'AMÉRIQUE

Date of mailing (day/month/year) 26 May 1999 (26.05.99)

in its capacity as designated Office

International application No. PCT/EP98/06294

International filing date (day/month/year) 02 October 1998 (02.10.98)

Applicant

MAX-PLANCK-GESELLSCHAFT ZUR FÖRDERUNG DER WISSENSCHAFTEN E.V. et al

The International Bureau transmits herewith the following documents and number thereof:

cop(ies) of priority document(s) (Rule 17.2(a))

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland

Authorized officer

Catherine Massetti

Facsimile No.: (41-22) 740.14.35 Telephone

Form PCT/IB/310 (July 1992)

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INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference	Saa	Notification of Transmittal of International
B 2911 PCT	FOR FURTHER ACTION Preli	minary Examination Report (Form PCT/IPEA/416)
International application No.	International filing date (day/month/year)	Priority date (day/month/year)
PCT/EP98/06294	02/10/1998	02/10/1997
International Patent Classification (IPC) or rC12N15/12 Applicant MAX-PLANCK-GESELLSCHAFT	ZUR FÖRDERUNG	is International Preliminary Examining Authority
and is transmitted to the applicant 2. This REPORT consists of a total of	according to Article 36. of 5 sheets, including this cover sheet.	
been amended and are the b	asis for this report and/or sheets contair 607 of the Administrative Instructions ur	cription, claims and/or drawings which have ning rectifications made before this Authority nder the PCT).
. 3. This report contains indications re I ☒ Basis of the report II ☐ Priority III ☐ Non-establishment of	elating to the following items: opinion with regard to novelty, inventive	e step and industrial applicability
IV □ Lack of unity of inven V ☒ Reasoned statement citations and explana		y, inventive step or industrial applicability;
VI ⊠ Certain documents o		
	international application	
VIII ⊠ Certain observations	on the international application	
Date of submission of the demand	Date of comple	etion of this report
26/04/1999		1 1. 01 00
Name and mailing address of the internatio preliminary examining authority: European Patent Office D-80298 Munich	nal Authorized offi	The state of the s
Tel. +49 89 2399 - 0 Tx: 5236	1 001151121	, .

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No. PCT/EP98/06294

I. Basis of the report

1. This report has been drawn on the basis of (substitute sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to the report since they do not contain amendments.):

	1110	report since they d	o not contain anonament.
	Des	cription, pages:	
	1-43	3	as originally filed
	Clai	ims, No.:	
	1-28	3	as originally filed
	Dra	wings, sheets:	
	1/22	2-22/22	as originally filed
2.	The	amendments have	e resulted in the cancellation of:
		the description,	pages:
		the claims,	Nos.:
		the drawings,	sheets:
3.			een established as if (some of) the amendments had not been made, since they have been beyond the disclosure as filed (Rule 70.2(c)):
4.	Ado	litional observation	s. if necessary:

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No. PCT/EP98/06294

V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)

Yes:

Claims

No:

Claims 1-28

Inventive step (IS)

Yes: Claims

No:

Claims 1-28

Industrial applicability (IA)

Yes:

Claims 1-27

No:

Claims 28:Seee section VIII/4).

2. Citations and explanations

see separate sheet

VI. Certain documents cited

1. Certain published documents (Rule 70.10)

and / or

2. Non-written disclosures (Rule 70.9)

see separate sheet

VIII. Certain observations on the international application

The following observations on the clarity of the claims, description, and drawings or on the question whether the claims are fully supported by the description, are made:

see separate sheet

INTERNATIONAL PRELIMINARY International application No. PCT/EP98/06294 EXAMINATION REPORT - SEPARATE SHEET

SECTION V-----

Any hitherto known gene encoding a protein having the Cys4-His-Cys3 motif, such as TIF1 and the Mi-2 autoantigen, anticipates novelty of claim 1(c) and claim 6(c). Correspondingly, claims 2-5 being dependent on claim 1 are not novel either as for instance the TIF1 encoding gene exhibits the properties defined in these claims (see Le Douarin B. et al., EMBO Journal, vol. 14, no. 9, May 1995, pp. 2020-2033 (1)). Moreover, taking into account that some of the genomic DNA sequences described in Levanon D. et al., Biochemistry and Molecular Biology International, vol. 35, no. 5, April 1995, pp. 929-936 (2) cover exon 14 of presently claimed sequence encoding the protein having the sequence shown in SEQ.ID.NO. 2A the teaching of (2) also destroys novelty of claims 1(c), 4, 5, 13-25. Relating to claim 1(c) it is also noted that a nucleic aid molecule hybridizing to the nucleic acid molecule of (a) or (b) is a complementary strand which per se cannot encode a peptide co-segregating in mutated form with APECED. Therefore, this functional definition is not siutable to render claims 1(c) and 6(c) novel over for instance (1).

In addition, it is noted that due to the present wording of claims 1(a)(b) and 6(a)(b) ("a nucleic acid molecule **comprising** a nucleic acid molecule...") also the genomic DNA disclosed in Aaltonen J. et al., Nature Genetics, vol. 8, September 1994, pp. 83-87 anticipates novelty of these claims, an correspondingly, also of claims 2-4, 7-12 as the embodiments of these claims are inherently met by the genomic DNA taught in (3).

Finally, considering that claims 1-3 are not novel and having regard to the term "corresponding disease state" novelty of claims 26 to 28 also is questionable. Accordingly, claims 1-28 do not meet the requirements of Art. 33(2)(3) PCT.

SECTION VI-----

The Finnish-German Apeced Consortium, Nature Genetics (1997 December) 17(4), 399-403

INTERNATIONAL PRELIMINARY International application No. PCT/EP98/06294 EXAMINATION REPORT - SEPARATE SHEET

SECTION VIII-----

- 1). In the absence of any indication concerning the hybridization conditions the term "hybridizing" used in claims 1 and 6 renders the scope of these claims unclear.
- 2). Irrespective of the fact that the term "homologue" has a well-recognized meaning in the art the use of said term renders the scope of claims 4 and 5 unclear since without an indication with respect to the percental identity between different sequences the expression "homologue" only indicates a certain <u>similarity</u> between two sequences.
- 3). Considering that presently claimed peptide is a molecule with multiple functions (see page 6 of present application "in a preferred embodiment....) the expression "loss of function or gain of function" written in claim 7 without a reference which characterise the precise function meant renders the scope of claim7 completely unclear. Correspondingly, the scope of claims 11 and 12 also is rather obscure.
- 4). Concerning claims 1(c) and 6(c) it is noted that a nucleic acid molecule that hybidizes to a nucleic acid molecule encoding a protein cannot encode a protein since it is a (-) strand.
- 5). For the assessment of the present claim 28 on the question whether they are industrially applicable, no unified criteria exist in the PCT. The patentability can also be dependent upon the formulation of the claims. The EPO, for example, does not recognize as industrially applicable the subject-matter of claims to the use of a compound in medical treatment, but may allow, however, claims to a known compound for first use in medical treatment and the use of such a compound for the manufacture of a medicament for a new medical treatment.



INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification ⁶:
 C12N 15/12, C07K 14/47, A61K 38/17, 39/395, G01N 33/68, C12Q 1/68, C07K

(11) International Publication Number:

WO 99/18197

A3 | (4

(43) International Publication Date:

15 April 1999 (15.04.99)

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PCT/EP98/06294

(22) International Filing Date:

16/18, A61K 48/00

2 October 1998 (02.10.98)

Marie-Laure [FR/DE]; Moltkestrasse 41, D-12203 Berlin (DE). LEHRACH, Hans [AT/DE]; Lützelsteiner Weg 50, D-14195 Berlin (DE).

pojan tie 12 C, FIN-00840 Helsinki (FI), YASPO.

(30) Priority Data:

97117154.1 2 October 1997 (02.10.97) EP 97117398.4 8 October 1997 (08.10.97) EP 97119810.6 12 November 1997 (12.11.97) EP (74) Agent: VOSSIUS & PARTNER; Siebertstrasse 4, D-81675 München (DE).

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Mannerheimintie 166, FIN-00300 Helsinki (FI).

(81) Designated States: CA, JP, US, European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT. SE).

(72) Inventors; and

(75) Inventors/Applicants (for US only): PELTONEN, Leena [FI/US]; 1029 Westholme Avenue, Los Angeles, CA 90024 (US). AALTONEN, Johanna-[FI/FI]; Näyttelijäntie 18 B 22, FIN-00400 Helsinki (FI). BJÖRSES, Petra [FI/FI]; Tarkk'ampujankatu 12 A 6, FIN-00150 Helsinki (FI). PERHEENTUPA, Jaakko [FI/FI]; Merikatu 3 A 2, FIN-00140 Helsinki (FI). PALOTIE, Aamo [FI/US]; 1029 Westholme Avenue, Los Angeles, CA 90024 (US).

HORELLI-KUITUNEN, Nina [FI/FI]; Lauri Mikon-

Published

With international search report.

(88) Date of publication of the international search report:

24 June 1999 (24.06.99)

(54) Title: NUCLEIC ACID MOLECULE ENCODING A (POLY)PEPTIDE CO-SEGREGATING IN MUTATED FORM WITH AUTOIMMUNE POLYENDOCRINOPATHY CANDIDIASIS ECTODERMAL DYSTROPHY (APECED)

(57) Abstract

The present invention relates to a nucleic acid molecule encoding a (poly)peptide co-segregating in mutated form with Autoimmune Polyendocrinopathy Candidiasis Ectodermal Dystrophy (APECED). In addition, the invention relates to a mammalian, preferably murine, homologue of the above nucleic acid molecule. The present invention further relates to a nucleic acid molecule deviating by at least one mutation from the nucleic acid molecule described above wherein said mutation co-segregates with APECED and is an insertion, a deletion, a substitution and/or an inversion, and wherein said mutation further results in a loss or a gain of function of the (poly)peptide encoded by said mutated nucleic acid molecule. Furthermore, the present invention relates to a vector comprising the nucleic acid molecules described above and to a host transformed with said vector. In addition, the present invention relates to a process of recombinantly producing a (poly)peptide encoded by the nucleic acid molecules described above comprising culturing or raising said host and isolating said (poly)peptide from said culture or said host. The present invention further relates to the (poly)peptide encoded by said nucleic acid molecules or produced by the process described above. Additionally, the present invention relates to an antibody that specifically recognizes said (poly)peptides. Moreover, the present invention relates to a method for testing for a carriership for APECED or for a corresponding disease state comprising testing a sample obtained from a prospective patient or from a person suspected of carrying a predisposition for a mutation in the wild-type nucleic acid molecule described above or a mutated form of the (poly)peptide encoded by said mutated nucleic acid molecule in an immuno-assay using the antibody described above.

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al Application No

A. CLASS	SIFICATION OF SUBJECT MATTER		PC	T/EP 98/0	6294
IPC 6	C12N15/12 C07K14/47 A61	K38/17 K48/00	A61K39/395	G01N33	/68
According	to International Patent Classification (IPC) or to both national	classification on			
B. FIELDS	S SEARCHED				
IPC 6	documentation searched (classification system followed by classification s	assification symb	ools)		
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Electronic o	lata base consulted during the				
	data base consulted during the international search (name of	data base and,	where practical, searc	th terms used)	
C 000000					
C. DOCUM	ENTS CONSIDERED TO BE RELEVANT				
Category	Citation of document, with indication, where appropriate, of	the relevant pas	ssages		Relevant to claim No.
x	LE DOUADIN D. CT. AL				
``	LE DOUARIN B ET AL.: "The N- of TIF1, a putative mediator	terminal	part		1-7,
		unction			11-23,25
ł	(AF-2), is fused to B-raf in protein T18"	the oncog	genic		
į	EMBO JOURNAL,				
	vol. 14, no. 9, May 1995, page	es 2020-2	2033		•
	KI 402030773	20 5050 5	-033,		
	see the whole document				
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X Further	r documents are listed in the continuation of box C.				
<u> </u>	gories of cited documents:		Patent family members	s are listed in anne	X.
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	defining the general state of the art which is not ed to be of particular relevance	Or pin	to understand the prin	oniici with the an	nlication but
earlier document but published on or after the international filing date			ient of particular releva	ance; the claimed	invention
document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)			e an inventive step w	for cannot be con: nen the document	sidered to is taken alone
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	ing address of the ISA	2	2/04/1999		
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	NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016				
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INTERNA...ONAL SEARCH REPORT

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Oderwald, H

INTERNALIONAL SEARCH REPORT

Interna .al Application No PCT/EP 98/06294

Category: Citation of document, with indication, where appropriate, of the relevant passages LEVANON D ET AL.: "Common promoter features in human and mouse liver type phosphofructokinase gene" BIOCHEMISTRY AND MOLECULAR BIOLOGY INTERNATIONAL, vol. 35, no. 5, April 1995, pages 929–936, XP002098776 cited in the application see the whole document & LEVANON D ET AL.: "Accession number X80853" EMBL SEQUENCE DATABASE, 29 April 1996, Heidelberg, Germany see nucleotides 135–700 —— AALTONEN J ET AL: "AN AUTOSOMAL LOCUS CAUSING AUTOIMMUNE DISEASE: AUTOIMMUNE POLYGLANDULAR DISEASE TYPE 1 ASSIGNED TO CHROMOSOME 21" NATURE GENETICS, vol. 8, September 1994, pages 83–87, XP000673965 cited in the application see the whole document	Citation of document, with indication, where appropriate, of the relevant passages (LEVANON D ET AL.: "Common promoter features in human and mouse liver type phosphofructokinase gene" BIOCHEMISTRY AND MOLECULAR BIOLOGY INTERNATIONAL, vol. 35, no. 5, April 1995, pages 929–936, XP002098776 cited in the application see the whole document & LEVANON D ET AL.: "Accession number X80853" EMBL SEQUENCE DATABASE, 29 April 1996, Heidelberg, Germany see nucleotides 135–700 AALTONEN J ET AL: "AN AUTOSOMAL LOCUS CAUSING AUTOIMMUNE DISEASE: AUTOIMMUNE POLYGLANDULAR DISEASE TYPE 1 ASSIGNED TO CHROMOSOME 21" NATURE GENETICS, vol. 8, September 1994, pages 83–87, XP000673965 cited in the application see the whole document ,X THE FINNISH-GERMAN APECED CONSORTIUM: "An autoimmune disease, APECED, caused by mutations in a novel gene featuring two PHD-type zinc-finger domains." NATURE GENETICS, (1997 DEC) 17 (4) 339–403. JOURNAL CODE: BRO. ISSN: 1061–4036., XP002098777 see the whole document	C.(Continu	ation) DOCUMENTS CONSIDERED TO BE RELEVANT	PCT/EP 98/06294
LEVANON D ET AL.: "Common promoter features in human and mouse liver type phosphofructokinase gene" BIOCHEMISTRY AND MOLECULAR BIOLOGY INTERNATIONAL, vol. 35, no. 5, April 1995, pages 929-936, XPO02098776 cited in the application see the whole document & LEVANON D ET AL.: "Accession number X80853" EMBL SEQUENCE DATABASE, 29 April 1996, Heidelberg, Germany see nucleotides 135-700 AALTONEN J ET AL: "AN AUTOSOMAL LOCUS CAUSING AUTOIMMUNE DISEASE: AUTOIMMUNE POLYGLANDULAR DISEASE TYPE 1 ASSIGNED TO CHROMOSOME 21" NATURE GENETICS, vol. 8, September 1994, pages 83-87, XP000673965 cited in the application see the whole document X THE FINNISH-GERMAN APECED CONSORTIUM: "An autoimmune disease, APECED, caused by mutations in a novel gene featuring two PHD-type zinc-finger domains." NATURE GENETICS, (1997 DEC) 17 (4) 399-403. JOURNAL CODE: BRO. ISSN: 1061-4036., XP002098777 see the whole document	LEVANON D ET AL.: "Common promoter features in human and mouse liver type phosphofructokinase gene" BIOCHEMISTRY AND MOLECULAR BIOLOGY INTERNATIONAL, vol. 35, no. 5, April 1995, pages 929–936, XP002098776 cited in the application see the whole document & LEVANON D ET AL.: "Accession number X80853" EMBL SEQUENCE DATABASE, 29 April 1996, Heidelberg, Germany see nucleotides 135–700 AALTONEN J ET AL: "AN AUTOSOMAL LOCUS CAUSING AUTOIMMUNE DISEASE: AUTOIMMUNE POLYGLANDULAR DISEASE TYPE 1 ASSIGNED TO CHROMOSOME 21" NATURE GENETICS, vol. 8, September 1994, pages 83–87, XP000673965 cited in the application see the whole document X THE FINNISH-GERMAN APECED CONSORTIUM: "An autoimmune disease, APECED, caused by mutations in a novel gene featuring two PHD-type zinc-finger domains." NATURE GENETICS, (1997 DEC) 17 (4) 399–403. JOURNAL CODE: BRO. ISSN: 1061–4036., XP002098777 see the whole document			100000000000000000000000000000000000000
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AALTONEN J ET AL: "AN AUTOSOMAL LOCUS CAUSING AUTOIMMUNE DISEASE: AUTOIMMUNE POLYGLANDULAR DISEASE TYPE 1 ASSIGNED TO CHROMOSOME 21" NATURE GENETICS, vol. 8, September 1994, pages 83-87, XP000673965 cited in the application see the whole document THE FINNISH-GERMAN APECED CONSORTIUM: "An autoimmune disease, APECED, caused by mutations in a novel gene featuring two PHD-type zinc-finger domains." NATURE GENETICS, (1997 DEC) 17 (4) 399-403. JOURNAL CODE: BRO. ISSN: 1061-4036., XP002098777 see the whole document	AALTONEN J ET AL: "AN AUTOSOMAL LOCUS CAUSING AUTOIMMUNE DISEASE: AUTOIMMUNE POLYGLANDULAR DISEASE TYPE 1 ASSIGNED TO CHROMOSOME 21" NATURE GENETICS, vol. 8, September 1994, pages 83-87, XP000673965 cited in the application see the whole document THE FINNISH-GERMAN APECED CONSORTIUM: "An autoimmune disease, APECED, caused by mutations in a novel gene featuring two PHD-type zinc-finger domains." NATURE GENETICS, (1997 DEC) 17 (4) 399-403. JOURNAL CODE: BRO. ISSN: 1061-4036., XP002098777 see the whole document		features in human and mouse liver type phosphofructokinase gene" BIOCHEMISTRY AND MOLECULAR BIOLOGY INTERNATIONAL, vol. 35, no. 5, April 1995, pages 929-936, XP002098776 cited in the application see the whole document & LEVANON D ET AL.: "Accession number X80853" EMBL SEQUENCE DATABASE, 29 April 1996, Heidelberg, Germany	1,4,5, 13-23,25
autoimmune disease, APECED, caused by mutations in a novel gene featuring two PHD-type zinc-finger domains." NATURE GENETICS, (1997 DEC) 17 (4) 399-403. JOURNAL CODE: BRO. ISSN: 1061-4036., XP002098777 see the whole document	autoimmune disease, APECED, caused by mutations in a novel gene featuring two PHD-type zinc-finger domains." NATURE GENETICS, (1997 DEC) 17 (4) 399-403. JOURNAL CODE: BRO. ISSN: 1061-4036., XP002098777 see the whole document		AALTONEN J ET AL: "AN AUTOSOMAL LOCUS CAUSING AUTOIMMUNE DISEASE: AUTOIMMUNE POLYGLANDULAR DISEASE TYPE 1 ASSIGNED TO CHROMOSOME 21" NATURE GENETICS, vol. 8, September 1994, pages 83-87, XP000673965 cited in the application	,
REST AVAILABLE COPY	REST AVAILABLE COPY	, X	autoimmune disease, APECED, caused by mutations in a novel gene featuring two PHD-type zinc-finger domains." NATURE GENETICS, (1997 DEC) 17 (4) 399-403. JOURNAL CODE: BRO. ISSN: 1061-4036., XP002098777	
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INTERNATIONAL SEARCH REPORT

International application No.

PCT/EP 98/06294

Boxi	Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)
This Inte	ernational Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:
1. X	Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely: Remark: Although claim 28 is directed to a method of treatment of the human/animal body, the search has been carried out and based on the alleged effects of the compound/composition.
2	Claims Nos.: because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3.	Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).
Box II	Observations where unity of invention is lacking (Continuation of item 2 of first sheet)
This Inte	rnational Searching Authority found multiple inventions in this international application, as follows:
1.	As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2.	As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3.	As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4.	No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:
Remark o	The additional search fees were accompanied by the applicant's protest. No protest accompanied the payment of additional search fees.